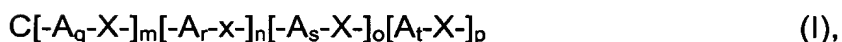


Version with Markings to Show Changes Made

1. (Amended) A liquid composition, [preparable] prepared by copolymerizing olefinically unsaturated compounds in a reaction medium of reactive diluents for thermally curable multisubstance mixtures. [as reaction medium.]
2. (Amended) A homopolymer or copolymer of olefinically unsaturated compounds, [preparable] prepared by copolymerizing the compounds in a reaction medium of reactive diluents for thermally curable multiubstance mixtures. [as reaction medium.]
3. (Amended) A liquid composition [as claimed in] of claim 1 [or homopolymer or copolymer as claimed in claim 2,] wherein compounds selected from the group consisting polyols, [and/or] epoxides and mixtures thereof are used as reactive diluents.
4. (Amended) A liquid composition [or a homopolymer or copolymer as claimed in] of claim 3, wherein the polyols used comprise
 - (iii) hyperbranched compounds containing a tetrafunctional central group derived from compounds selected from the group consisting of ditrimethylolpropane, diglycerol, [and/or] ditrimethylolethane and mixtures thereof or a tetrafunctional central group of the general formula I



in which the indices and variables have the following definitions:

$m + n + o + p = 4$; where

m is an integer from 1 to 3, and

n, o and p are 0 or an integer from 1 to 3;

q, r, s and t are an integer from 1 to 5, where $q \geq r, s, t$, [especially $q > r, s, t$];

X is -O-, -S- or -NH-;

A is $-\text{CR}_2-$; where

R is -H, -F, -Cl, -Br, -CN, $-\text{NO}_2$

C_1 - C_3 alkyl or haloalkyl or C_1 - C_3 alkoxy radical or, if q, r, s and/or t are at least 2, R is selected from the group consisting of a C_2 - C_4 alkanediyl, [and/or] oxaalkanediyl radical having 2 to 5 carbon atoms, [and/or] an oxygen atom -O- which bridges from 3 to 5 carbon atoms of the radical -A- and mixtures thereof;

(ii) cyclic and/or acyclic C_9 - C_{16} alkanes

functionalized with at least [o] two hydroxyl groups or at least one hydroxyl group and at least one thiol group;

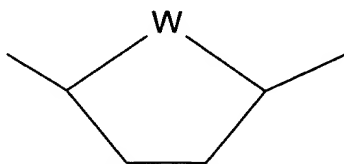
(iii) polyols [obtainable] obtained by hydroformylating oligomers of the formula (III),



in which R^2 is $-(\text{CH}_2)_w-$,

in which the index w is an integer from 1 to 6, or

=



in which w is $-\text{CH}_2-$ or an oxygen atom;

R^3 , R^4 , R^5 and R^6 independently of one another are hydrogen atoms or alkyl; and the index v is an integer from 1 to 15.

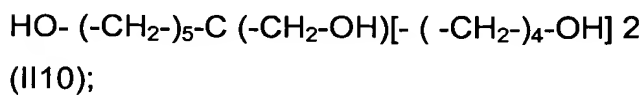
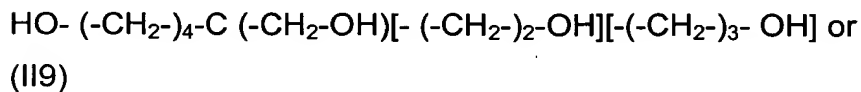
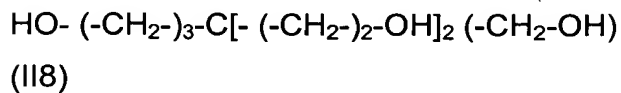
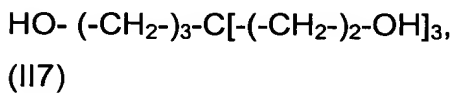
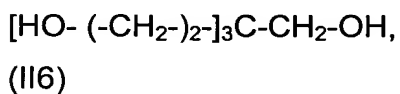
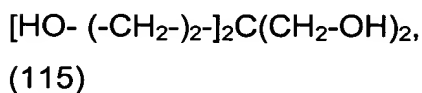
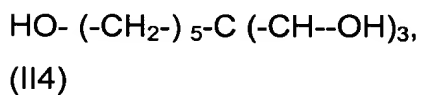
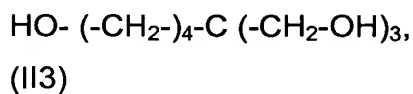
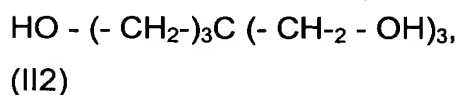
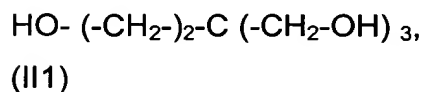
5. (Amended) A liquid composition [or a homopolymer or copolymer as claimed in] of claim 4, wherein

- the polyols used comprise
- (i) hyperbranched compound [obtainable] obtained by reacting 2,2-bishydroxymethylbutane-1,4-diol with phthalic anhydride and then reacting the resultant intermediate with glycidyl esters of tertiary, highly branched, saturated monocarboxylic acids,
- the polyols (ii) used comprise dialkyloctanediols, [especially diethyl- octanediols,] and
- the polyols (iii) used comprise hydroformylated and hydrogenated oligomers, [obtainable] obtained by metathesis from acyclic monoolefins and cyclic monoolefins, hydroformylation of the -resultant oligomers and subsequent hydrogenation, the cyclic monoolefin used comprising cyclopentene and the acyclic monoolefins used comprising hydrocarbon mixtures obtained in petroleum processing by cracking (C₅ cut), and the polyols (iii) having a hydroxyl number (OHN) of from 200 to 60, [in particular from 250 to 450,] a number-average molecular weight M_n , of from 400 to 1 000, [in particular from 400 to 600,] a mass-average molecular weight M_w , in the range from 600 to 2 000, [in particular from 600 to 1100,] and a polydispersity M_n/M_w , from 1.4 to 3.[, in particular from 1.7 to 1.9.]

6. (Amended) A liquid composition [or a homopolymer or copolymer as claimed in] of claim 3, wherein the reactive diluents containing epoxide groups comprise

(iv) glycidyl ethers of polyols or polyphenols such as glycerol, diglycerol, glucitol, erythritol, pentaerythritol, dipentaerythritol, trimethylolpropane,

trimethylolethane, ditrimethylolpropane, ditrimethylolethane, tetrakis(2-hydroxyethyl)ethane, tetrakis(3-hydroxypropyl)methane, the tetraols II1 to II10:



the polyols (i), (ii) and (iii), pyrocatechol, resorcinol, hydroquinone, pyrogallol, phloroglucinol, (p-hydroxy- phenyl)phloroglucinol, 5-(7-hydroxynaphth-1-yl)pyrogallol, bisphenol F, bisphenol A or novolaks;

- (v) low molecular mass epoxy resins or oligomers which contain glycidyl-containing monomers (A6) in copolymerized form;
- (vi) glycidyl esters of Versatic® acid;
- (vii) epoxy resin esters of saturated and unsaturated fatty acids; [(epoxidized oils);]

and[/or]

- (viii) epoxidized triglycerides of natural oils and esters, and mixtures thereof.

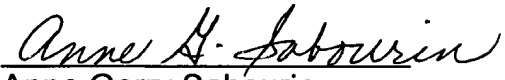
7. (Amended) A liquid composition [as claimed in, any of claims 1 or 3 to 6 or a homopolymer or copolymer as claimed in any of claims 2 to 6, preparable] prepared by homopolymerization or copolymerization of olefinically unsaturated monomers in a Taylor reactor having an external reactor wall located within which there is a concentrically or eccentrically disposed rotor, a reactor floor and a reactor lid, which together define the annular reactor volume, at least one means for metered addition of reactants, and a means for the discharge of product, where the reactor wall and/or the rotor are or is geometrically designed in such a way that the conditions for Taylor vortex flow are met over substantially the entire reactor length in the reactor volume,[i.e.] in such a way that the annular gap broadens in the direction of flow traversal.

8. (Amended) A process for preparing a liquid composition [or a homopolymer or copolymer of olefinically unsaturated compounds] by free-

REMARKS

Upon entry of the present amendment claims 1-10 are pending in the application. Claim 11 has been canceled without prejudice. Claims 1-10 have been amended in accordance with the requirements of U.S. patent practice. New claims 12-30 add no new matter, as these claims contain subject matter deleted from the amended claims. Applicants respectfully request entry of the preliminary amendment.

Respectfully Submitted,


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